

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0341_01_f_2014_13				
Comment Code					
Inspector Comment					
District has the O+M Manual on hand.					

No Photos

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0341_01_f_2014_14				
Comment Code					
Inspector Comment					
District has emergency supplies stored.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start		Rating **	A	Issue No.	15
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD0341_01_f_2014_15				
Comment Code					
Inspector Comment					
District is prepared for a flood fight.					

No Photos

LM Start	0.00	Rating **	M	Issue No.	25
LM End	0.00	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		38.085507°	38.085507°	
			-121.686528°	-121.686528°	
DWR ID					
Comment Code					
Inspector Comment					
<p>FS_ID:52252 DS_ID:24215 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana) FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 11.1 feet below the crown. Corrugated metal cutoff wall around pipe at the center of the levee. Siphon breaker is located on both waterside (WS) and landside (LS). Pump is located on the LS approximately 300 feet from LS toe. Pipe is exposed on both levee slopes. Rock revetment present along WS slope. Marine Station number 1 located on WS with an attached small solar panel on top. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.0). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 175+00]. FS Date: 5/5/2009</p>					

Photo 1 of 3 : UCIP_SP_2018_52252_37640.jpg



Marine station posts in river identified as Station 1 near crossing.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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LM Start	0.00	Rating **	M	Issue No.	25 (cont)
LM End	0.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			38.085507 °	38.085507 °
				-121.686528 °	-121.686528 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:52252
DS_ID:24215
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 05/05/2009 Dense vegetation limits the inspector's visibility to identify signs of pipe failure (leaks) along the slopes. Recommend removing vegetation along pipe alignment to conduct proper inspection of structure and appurtenances. (DWR UCIP - O. Magana)
FIELD_STRUCT_DESC: 30-inch steel drainage pipe through the levee, 11.1 feet below the crown. Corrugated metal cutoff wall around pipe at the center of the levee. Siphon breaker is located on both waterside (WS) and landside (LS). Pump is located on the LS approximately 300 feet from LS toe. Pipe is exposed on both levee slopes. Rock revetment present along WS slope. Marine Station number 1 located on WS with an attached small solar panel on top. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual Unit No. 101, February 1962, (HLM 0.0). LMA encroachment station (STA) reference based on Map of Evacuation Route, Reclamation District 341 Sherman Island by Wagner Bonsignore Consulting Civil Engineers, A Corporation dated July 2012, STA 175+00].
FS Date: 5/5/2009

LM Start	0.00	Rating **	M	Issue No.	25 (cont)
LM End	0.00	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP_SP_2018_52252_37644.jpg



View of pipe and siphon breaker located on WS--dense vegetation on slope.

Photo 3 of 3 : UCIP_SP_2018_52252_37642.jpg



Overview of LS slope above ground once it exits levee. Pump is located approximately 300 feet from levee toe.

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Unit No. 01 Threemile Slough	Right	3.36	03/22/2018 03/22/2018	Keith Millard

LM Start	2.19	Rating **	M	Issue No.	21
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.113144 °	38.113144 °
				-121.687601 °	-121.687601 °
DWR ID	DWR_RD0341_01_s_2018_21				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree on waterside slope.					

Photo 1 of 1 : SP_2018_RD0341_167_21_20180322_00052.jpg



Fallen tree on waterside slope should be removed.

LM Start	3.21	Rating **	M	Issue No.	22
LM End	3.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.104677 °	38.104677 °
				-121.700030 °	-121.700030 °
DWR ID	DWR_RD0341_01_f_2017_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP_2018_RD0341_167_22_20180305_00002.jpg



Remove or thin wild vegetation at base of electrical transmission tower to allow visibility and access to slope and toe.

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Reclamation District No. 0341 Sherman Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	3.36	Rating **	A/W	Issue No.	36
LM End	3.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.105315 °	38.098158 °
				-121.702537 °	-121.706320 °
DWR ID	DWR_RD0341_02_s_2017_36				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Weeds have been reduced to an acceptable level in this area.					

Photo 1 of 1 : SP_2018_RD0341_168_36_20180322_00085.jpg



Acceptable landside vegetation.

LM Start	3.36	Rating **	M	Issue No.	40
LM End	3.94	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.105315 °	38.098158 °
				-121.702537 °	-121.706320 °
DWR ID	DWR_RD0341_02_s_2017_40				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the wild growth from the waterside slope.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	3.48	Rating **	M	Issue No.	44
LM End	3.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104454 °	38.104454 °
				-121.704275 °	-121.704275 °
DWR ID	DWR_RD0341_02_s_2018_44				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree limbs from waterside shoulder.					

Photo 1 of 1 : SP_2018_RD0341_168_44_20180322_00086.jpg



Tree limbs on waterside shoulder should be removed.

LM Start	3.50	Rating **	M	Issue No.	45
LM End	3.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.104234 °	38.104234 °
				-121.704427 °	-121.704427 °
DWR ID	DWR_RD0341_02_s_2018_45				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove fallen tree from landside levee toe.					

No Photos

LM Start	3.88	Rating **	M	Issue No.	46
LM End	3.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.099054 °	38.099054 °
				-121.706368 °	-121.706368 °
DWR ID	DWR_RD0341_02_s_2018_46				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove tree and limbs from waterside shoulder.					

Photo 1 of 1 : SP_2018_RD0341_168_46_20180322_00087.jpg



Tree trunk and limbs should be removed from waterside shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	3.94	Rating **	U	Issue No.	41
LM End	6.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.098158 °	38.080223 °
				-121.706320 °	-121.730312 °
DWR ID	DWR_RD0341_02_s_2017_41				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the unwanted vegetation from the waterside shoulder and slope.					

Photo 1 of 1 : SP_2018_RD0341_168_41_20180305_00009.jpg



Looking downstream from levee mile 3.94 at tall unwanted weeds and other vegetation on the waterside shoulder and slope.

LM Start	3.97	Rating **	M	Issue No.	43
LM End	6.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.097782 °	38.080143 °
				-121.706262 °	-121.728330 °
DWR ID	DWR_RD0341_02_f_2017_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the unwanted vegetation from the landside shoulder, slope and toe.					

Photo 1 of 1 : SP_2018_RD0341_168_43_20180305_00013.jpg



Remove the unwanted vegetation from the landside shoulder, slope and toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.15	Rating **	M	Issue No.	7
LM End	4.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.095148 °	38.094590 °
				-121.706367 °	-121.706393 °
DWR ID	DWR_RD0341_02_s_2016_7				
Comment Code					
Inspector Comment					
2011 - Large new erosion pocket probably hidden by vegetation in the past. 2015: No observed changes. [2015 Site ID: SAC_8-2_L]					

Photo 1 of 1 : SP_2018_RD0341_168_7_20180305_00004.jpg



USACE 2013 Photo #1

LM Start	4.47	Rating **	U	Issue No.	3
LM End	4.62	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.090620 °	38.088572 °
				-121.706684 °	-121.707127 °
DWR ID	DWR_RD0341_02_s_2016_3				
Comment Code					
Inspector Comment					
1999 - New small slump in eroded bank. 2005 - Reach extended because of vertical bank along the roadway upstream. 2011 - More slumping since last year. 2012 - Site upgraded to critical. Very steep slope which may be effecting the highway on top of the levee. 2015: New erosion towards downstream end of site. [2015 Site ID: SAC_8-0_L]					

Photo 1 of 1 : SP_2018_RD0341_168_3_20180305_00002.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.75	Rating **	A/W	Issue No.	42
LM End	4.79	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.086641 °	38.086119 °	
			-121.707545 °	-121.707912 °	

DWR ID DWR_RD0341_02_f_2017_42

Comment Code

Inspector Comment

Levee Evaluation Comments

Description:

Site ID No:65

Site Designation:DWR_RD0341_02_s_2012_8

Repair Type: Erosion

Rating:Area of Concern

Field Date:6/8/2017

Notes: hwy 160 forms levee crown road, erosion has encroached into paved crown, crown 38' wide. This site is currently under contract for repair under FSRP.

LM Start	4.75	Rating **	A/W	Issue No.	42 (cont)
LM End	4.79	Issue Type +	Ma	Location *	

Photo 1 of 3 : SP_2018_RD0341_168_42_20180305_00010.jpg



Photo 2 of 3 : SP_2018_RD0341_168_42_20180305_00011.jpg



* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	4.75	Rating **	A/W	Issue No.	42 (cont)	
LM End	4.79	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.086641 °	38.086119 °	
				-121.707545 °	-121.707912 °	
DWR ID	DWR_RD0341_02_f_2017_42					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:65						
Site Designation:DWR_RD0341_02_s_2012_8						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/8/2017						
Notes: hwy 160 forms levee crown road, erosion has encroached into paved crown, crown 38' wide. This site is currently under contract for repair under FSRP.						

Photo 3 of 3 : SP_2018_RD0341_168_42_20180305_00012.jpg



LM Start	4.76	Rating **	A/W	Issue No.	4
LM End	4.85	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.086603 °	38.085459 °
				-121.707786 °	-121.708607 °
DWR ID	DWR_RD0341_02_s_2016_4				
Comment Code					
Inspector Comment					
2011 - Large slump section. 2012 - Site extended downstream, upgraded to critical, severe windwave. Slope is very steep and may be effecting the highway on top of the levee. 2015: No observed changes. [2015 Site ID: SAC_7-9_L] 11/02/17: This issue changed from U to A/W due to DWR 2017 Levee Eval Storm Site issue with U rating at same location.					

Photo 1 of 1 : SP_2018_RD0341_168_4_20180305_00003.jpg



USACE 2013 Photo #1

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Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	5.55	Rating **	M	Issue No.	11
LM End	5.76	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.081270 °	38.080807 °
				-121.719702 °	-121.723488 °
DWR ID	DWR_RD0341_02_f_2014_11				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Trim up the trees on the waterside slope so the ground can be seen.					

No Photos

LM Start	6.03	Rating **	U	Issue No.	49
LM End	6.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.080143 °	38.080125 °
				-121.728332 °	-121.729662 °
DWR ID	DWR_RD0341_02_f_2016_49				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the bamboo from the landside levee slope.					

Photo 1 of 1 : SP_2018_RD0341_168_49_20180305_00015.jpg



RD 341 Landside slope from levee mile 6.03-6.10 tall unwanted growth of Arundo present on the levee section.

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Unit No. 02 Sacramento River	Left	6.28	03/22/2018 03/22/2018	Keith Millard

LM Start	6.03	Rating **	U	Issue No.	1
LM End	6.16	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.080370 °	38.080526 °
				-121.728341 °	-121.730483 °
DWR ID	DWR_RD0341_02_s_2016_1				
Comment Code					
Inspector Comment					
2011 - Large slump at downstream end. Gully formed from surface runoff from the road. Shallow slumping throughout site. 2012 - The gully at upstream end has increased in size and site continues to worsen. 2015: No observed changes. [2015 Site ID: SAC_7-3_L]					

Photo 1 of 1 : SP_2018_RD0341_168_1_20180305_00001.jpg



USACE 2013 Photo #1

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